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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/709,131

DATE: 11/27/2000  
 TIME: 14:04:36

Input Set : A:\959830u1.app  
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C--> 3 <110> APPLICANT: Gartenhaus, Ronald P.  
 5 <120> TITLE OF INVENTION: MCT-1, A Human Oncogene  
 7 <130> FILE REFERENCE: 209598.5002/30U1  
 9 <140> CURRENT APPLICATION NUMBER: US/09/709,131  
 10 <141> CURRENT FILING DATE: 2000-11-10  
 12 <150> PRIOR APPLICATION NUMBER: US 60/085,029  
 13 <151> PRIOR FILING DATE: 1998-05-11  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US99/10184  
 16 <151> PRIOR FILING DATE: 1999-05-10  
 18 <160> NUMBER OF SEQ ID NOS: 10  
 20 <170> SOFTWARE: PatentIn Ver. 2.1  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 944  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: Human cDNA  
 30 <400> SEQUENCE: 1  
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 32 gagtccagag gagcgggaagt agtcagattt gactgagagc cgtaaaagcgc ggctggctct 120  
 33 cgtttttccgg ataacgacta cagctccgac tgtcagtgcc ggccttccctc gtgtgagggg 180  
 34 atctgcccga cccctgcaaa ttcaatttct ttccatttcc gggcccttcc ctatcgtcgc 240  
 35 ccccttcacc ttggatcatg ttcaagaaat ttgatgaaaa agaaaaatgtg tccaactgca 300  
 36 tccagttgaa aacttcagtt attaagggtta ttaagaatca attgatagag caattttccag 360  
 37 gtattgaacc atggcttaat caaatcatgc ctaagaaaaga tccgtgcaaa atagtccgat 420  
 38 gccatgaaca tatagaaatc cttacagtta atggagaatt actctttttt agacaaaagag 480  
 39 aagggccctt ttatccaacc ctaagattac ttacaaaata tctctttatc ctgccacacc 540  
 40 agcagggtta taaaggagcc atcaaatttg tactcagtg agcaaatatc atgtgtccca 600  
 41 ggcttaactt ctctcgagc taagctttac cctgctgcag tagataccat tgttgctatc 660  
 42 atggcagaag gaaaacagca tgctctatgt gtttgagtca tgaagatgtc tgcagaagac 720  
 43 attgagaaag tcaacaaagg aattggcatt gaaaatatcc attattttaa tgatgggctg 780  
 44 tggcatatga agacatatata atgagcctca gaaggaaatgc acttgggcta aatatggata 840  
 45 ttgtgctgta tctgtgtttg tgtctgtgtg tgacagcatg aagataatgc ctgtggttat 900  
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 50 <211> LENGTH: 121  
 51 <212> TYPE: PRT  
 52 <213> ORGANISM: Homo sapiens  
 54 <220> FEATURE:  
 55 <223> OTHER INFORMATION: Putative sequence of protein encoded by human cDNA  
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 58 <400> SEQUENCE: 2  
 59 Met Phe Lys Lys Phe Asp Glu Lys Glu Asn Val Ser Asn Cys Ile Gln  
 60 1 5 10 15  
 62 Leu Lys Thr Ser Val Ile Lys Gly Ile Lys Asn Gln Leu Ile Glu Gln  
 63 20 25 30  
 65 Phe Pro Gly Ile Glu Pro Trp Leu Asn Gln Ile Met Pro Lys Lys Asp



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66          35          40          45
68 Pro Val Lys Ile Val Arg Cys His Glu His Ile Glu Ile Leu Thr Val
69          50          55          60
71 Asn Gly Glu Leu Leu Phe Arg Gln Arg Glu Gly Pro Phe Tyr Pro
72 65          70          75          80
74 Thr Leu Arg Leu Leu His Lys Tyr Pro Phe Ile Leu Pro His Gln Gln
75          85          90          95
77 Val Asp Lys Gly Ala Ile Lys Phe Val Leu Ser Gly Ala Asn Ile Met
78          100          105          110
80 Cys Pro Arg Leu Asn Phe Ser Trp Ser
81          115          120
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86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
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97 <211> LENGTH: 24
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99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
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123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence: pCMV-MCT-1
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130 <400> SEQUENCE: 6
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134 <210> SEQ ID NO: 7
135 <211> LENGTH: 943
136 <212> TYPE: DNA
137 <213> ORGANISM: Homo sapiens

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140 <223> OTHER INFORMATION: cDNA encoding MCT-1
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145 cyttttccgg ataacgacta cagctccgac tgcagtgcc ggcttccctc gtagtagggg 180
146 atctgccgga cccctgc aaa ttcaatttct ttccattcc ggcccttcc ctatcgtcgc 240
147 ccccttcacc ttggatcatg ttcaagaaat ttgatgaaaa agaaaatgtg tccaactgca 300
148 tccagttgaa aacttcagtt attaagggtg ttaagaatca attgatagag caatttccag 360
149 gtattgaacc atggcttaat caaatcatgc ctaagaaaga tctgttcaaa atagtccgat 420
150 gccatgaaca tatagaaatc cttacagtaa atggagaatt actctttttt agacaaagag 480
151 aagggccttt ttatccaacc ctaagattac ttcaaaaata tctttttatc ctgccacacc 540
152 agcaggttga taaaggagcc atcaaatgtg tactcagtg agcaaatatc atgtgtccag 600
153 gcttaacttc tcttgagct aagctttacc ctgctgcagt agataccatt gttgctatca 660
154 tggcagaagg aaaacagcat gctctatgtg ttggagtcac gaagatgtct gcagaagaca 720
155 ttgagaaagt caacaaagga attggcattg aaaatatcca ttattttaat gatgggctgt 780
156 ggcataatga gacatatata tgagcctcag aaggaatgca cttgggctaa atatggatat 840
157 tgtgtgtgat ctgtgtttgt gctgtgtgtg gacagcatga agataatgcc tgtggttatg 900
158 ctgaataaat tcaccagatg ctaaaaaaaaa aaaaaaaaaa aaa 943
161 <210> SEQ ID NO: 8
162 <211> LENGTH: 181
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
166 <220> FEATURE:
167 <223> OTHER INFORMATION: MCT-1 Protein
169 <400> SEQUENCE: 8
170 Met Phe Lys Lys Phe Asp Glu Lys Glu Asn Val Ser Asn Cys Ile Gln
171 1 5 10 15
173 Leu Lys Thr Ser Val Ile Lys Gly Ile Lys Asn Gln Leu Ile Glu Gln
174 20 25 30
176 Phe Pro Gly Ile Glu Pro Trp Leu Asn Gln Ile Met Pro Lys Lys Asp
177 35 40 45
179 Pro Val Lys Ile Val Arg Cys His Glu His Ile Glu Ile Leu Thr Val
180 50 55 60
182 Asn Gly Glu Leu Leu Phe Phe Arg Gln Arg Glu Gly Pro Phe Tyr Pro
183 65 70 75 80
185 Thr Leu Arg Leu Leu His Lys Tyr Pro Phe Ile Leu Pro His Gln Gln
186 85 90 95
188 Val Asp Lys Gly Ala Ile Lys Phe Val Leu Ser Gly Ala Asn Ile Met
189 100 105 110
191 Cys Pro Gly Leu Thr Ser Pro Gly Ala Lys Leu Tyr Pro Ala Ala Val
192 115 120 125
194 Asp Thr Ile Val Ala Ile Met Ala Glu Gly Lys Gln His Ala Leu Cys
195 130 135 140
197 Val Gly Val Met Lys Met Ser Ala Glu Asp Ile Glu Lys Val Asn Lys
198 145 150 155 160
200 Gly Ile Gly Ile Glu Asn Ile His Tyr Leu Asn Asp Gly Leu Trp His
201 165 170 175
203 Met Lys Thr Tyr Lys

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209 <212> TYPE: PRT
210 <213> ORGANISM: Homo sapiens
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Portion of MCT-1 protein sequence for comparison
214     with Cyclin H protein sequence
216 <400> SEQUENCE: 9
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218   1             5             10             15
220 Gly ile Lys Asn Gln Leu Ile Glu Gln Phe Pro Gly Ile Glu Pro Trp
221             20             25             30
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224             35             40             45
226 His Glu His Ile Glu Ile Leu Thr Val Asn
227   50             55
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231 <211> LENGTH: 50
232 <212> TYPE: PRT
233 <213> ORGANISM: Homo sapiens
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Portion of Cyclin H protein sequence for
237     comparison with MCT-1 protein sequence
239 <400> SEQUENCE: 10
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241   1             5             10             15
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244             20             25             30
246 Ala Val Leu Lys Gln Lys Leu Glu Arg Cys His Ser Ala Glu Leu Ala
247             35             40             45
249 Leu Asn
250   50

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VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number